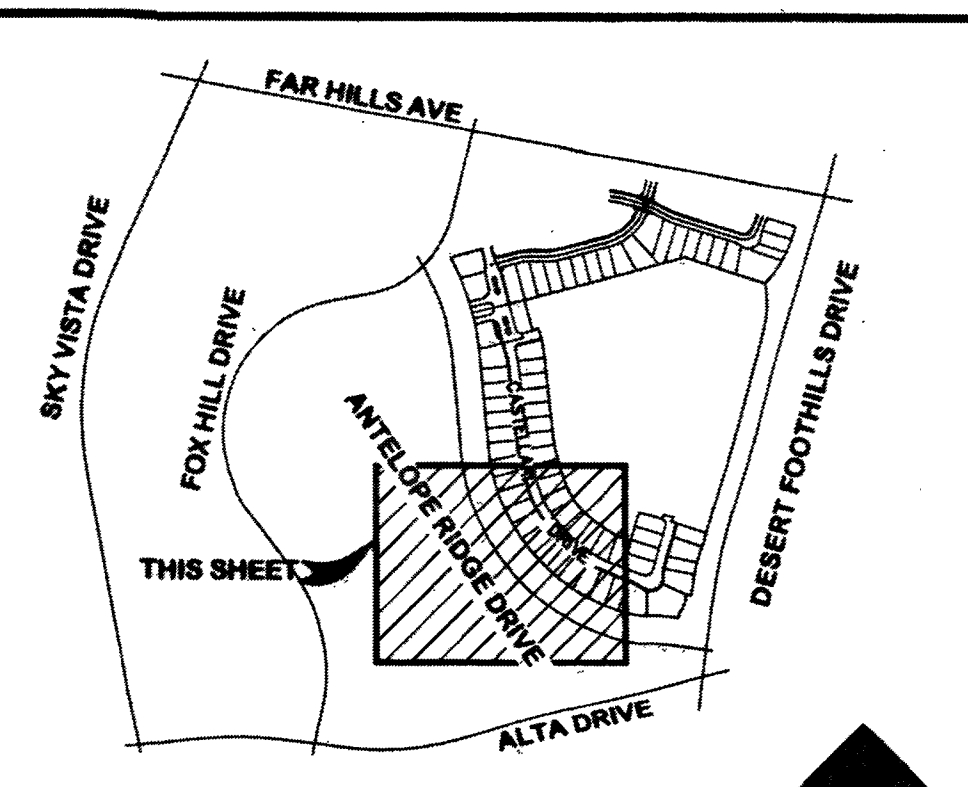
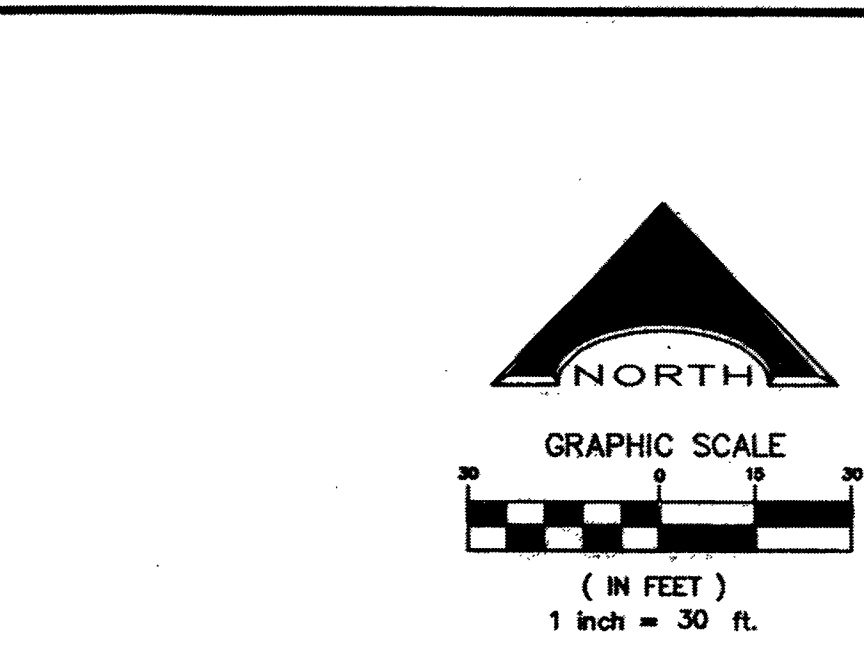
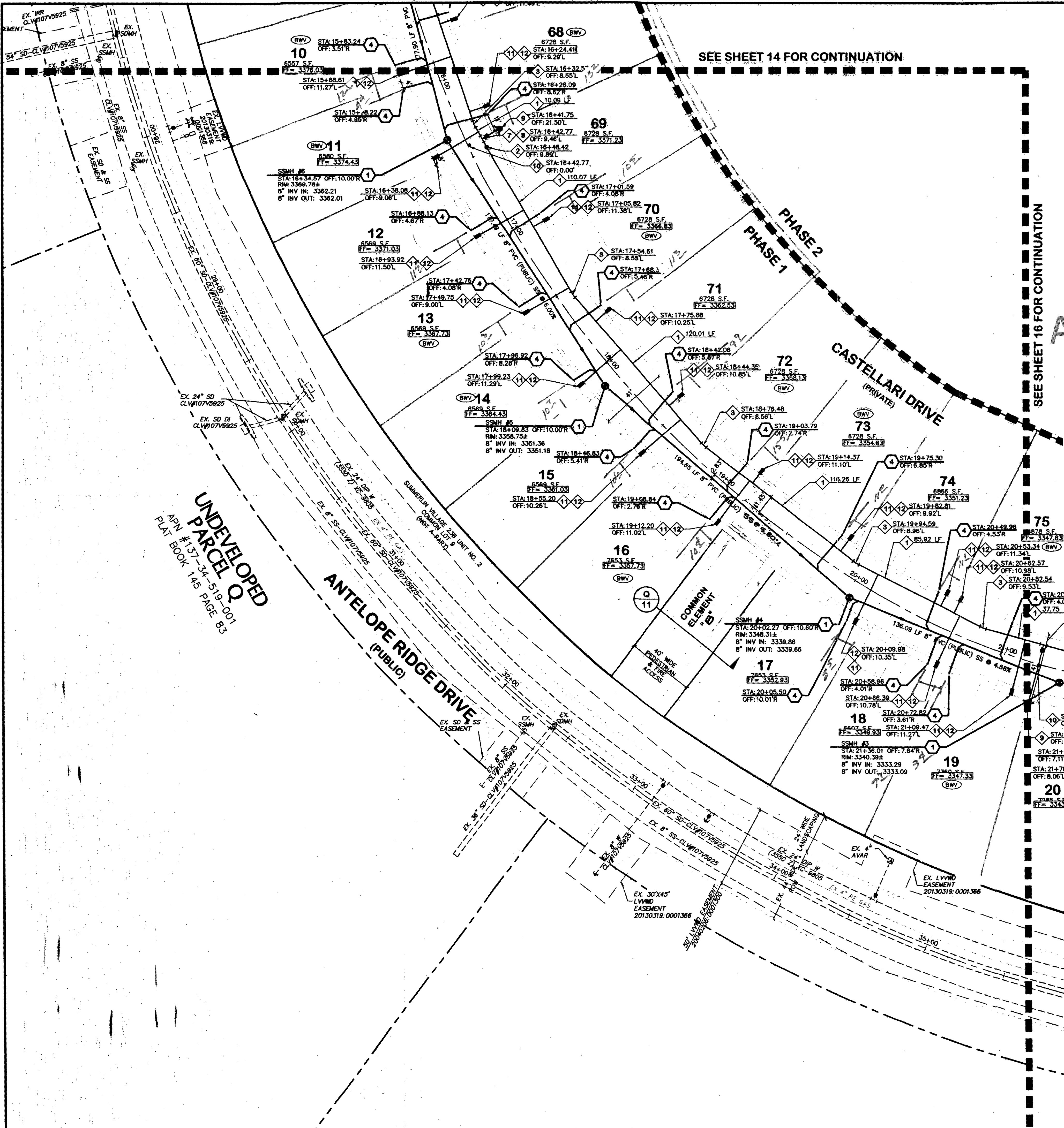




LOCATION MAP

- SANITARY SEWER CONSTRUCTION NOTES**
1. CONSTRUCT 48" MANHOLE (STD. DWG. SD-1A AND SD-1B)
 2. INSTALL 8" SDR-35 PVC (PUBLIC) SANITARY SEWER PIPE
 3. CAP & PLUG 8" SANITARY SEWER PIPE
 4. INSTALL 4" PVC SANITARY SEWER LATERAL W/18" MIN. CLEARANCE FROM BOTTOM OF WATER TO TOP OF SEWER (STD. DWG. SD-22, SD-23 & SD-25)
 5. CONNECT TO EXISTING SANITARY SEWER PIPE
- WATER CONSTRUCTION NOTES**
1. INSTALL 8" C-900 PVC (PUBLIC) PIPE
 2. INSTALL 8" GATE VALVE (UDACS PLATE NO. 30 & 39)
 3. INSTALL 8" - 11.5" BEND (UDACS PLATE NO. 31)
 4. INSTALL 8" - 45" BEND (UDACS PLATE NO. 31)
 5. INSTALL 8" - 90" BEND (UDACS PLATE NO. 31)
 6. INSTALL 8" X 8" X 8" TEE (UDACS PLATE NO. 31)
 7. INSTALL 8" X 8" X 6" TEE (UDACS PLATE NO. 31)
 8. INSTALL 6" GATE VALVE (UDACS PLATE NO. 30 & 39)
 9. INSTALL FIRE HYDRANT ASSEMBLY (UDACS PLATE NO. 40)
 10. INSTALL BLUE REFLECTOR MARKER (UDACS PLATE NO. 40)
 11. INSTALL 1" TYPE K COPPER WATER LATERAL (DOMESTIC) AND 3/4" WATER METER (UDACS PLATE NO. 4)
 12. INSTALL 8" X 1" SERVICE SADDLE (UDACS PLATE NO. 2)
 13. INSTALL 1" HORIZONTAL DEFLECTION (MAX.)
 14. STUB & CAP 8" PIPE WITH 2" BLOW OFF (UDACS PLATE NO. 36)
 15. INSTALL CASING PER EASEMENT/COMMON ELEMENT DETAIL SHEET 16
 16. REMOVE CAP AND BLOW OFF AND CONNECT TO EXISTING WATER
 17. INSTALL 8" X 8" TAPPING SLEEVE (UDACS PLATE NO. 31 & 34) WITH 8" TAP GATE VALVE (UDACS SECT. 2.24.01A)
 18. INSTALL 8" - 22.5" BEND (UDACS PLATE NO. 31)

- NOTES**
1. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 2. EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
 3. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTION.
 4. WATER NOTES FOR SEPARATION FROM DRY UTILITIES:
 - MAINTAIN MINIMUM 12" OF VERTICAL SEPARATION BETWEEN WATER AND DRY UTILITIES AT ALL POINTS OF CROSSING.
 - MAINTAIN A MINIMUM 3" PARALLEL SEPARATION FROM WATER LINES.
 - ANY EXCAVATION BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS, ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED, MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
 5. ALL LOTS/LOT: 14-25 & 71-79
 - THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES
 - WATER MAIN JOINT DEFLECTION (PVC 4" - 24")
 - PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET PER UDACS 2.07.01 AND 2.07.02
 - FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
 - ALL ABOVE GROUND UTILITY APPURTENANCES WILL CONFORM TO THE REQUIREMENTS OF TITLE 18.06 AND 18.08" ALL UTILITIES SERVING NEW DEVELOPMENT SHALL BE UNDERGROUND. ABOVE GROUND UTILITY APPURTENANCES VISIBLE FROM PUBLIC STREETS SHALL BE SCREENED.
 - MAINTAIN 5' OF PARALLEL SEPARATION BETWEEN POWER POLES AND WATER METERS.

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE MANAGER
DATE: 3/14/15 PROJECT NO. 123250
LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 P.S.I. RESIDUAL

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

THIS PROJECT PLAN APPROVAL CONTINGENT ON:
SAVONA ENTRANCE (LVWD PROJECT #123251)
PLAN APPROVAL

SEWER CONTRIBUTIONS

AVERAGE FLOW	0.0115 MGD
PEAK FLOW	0.0503 MGD

BASIS OF BEARINGS

NORTH 15°02'07" EAST, BEING THE BEARING OF THE CENTERLINE OF DESERT FOOTHILLS DRIVE AS SHOWN ON THE PLAT OF SUMMERLIN VILLAGE 238 UNIT NO. 2, ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS BOOK 145, PAGE 83 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 27569
A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF MOUNTAIN SHADOW ROAD AND DESERT FOOTHILLS.
ELEVATION = 1013.556 METERS (3325.31 FEET) NAVD 1988.

LEGAL DESCRIPTION

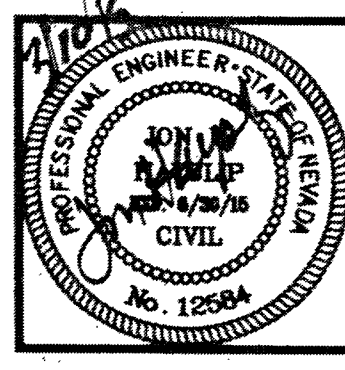
PARCEL CC AS SHOWN ON THE FINAL MAP OF SUMMERLIN VILLAGE 238 UNIT NO. 2, A COMMON INTEREST COMMUNITY, ON FILE IN BOOK 145 OF PLATS, PAGE 83 LYING WITHIN SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD

[Signature]
CITY FIRE DEPARTMENT

DATE: 3/14/15



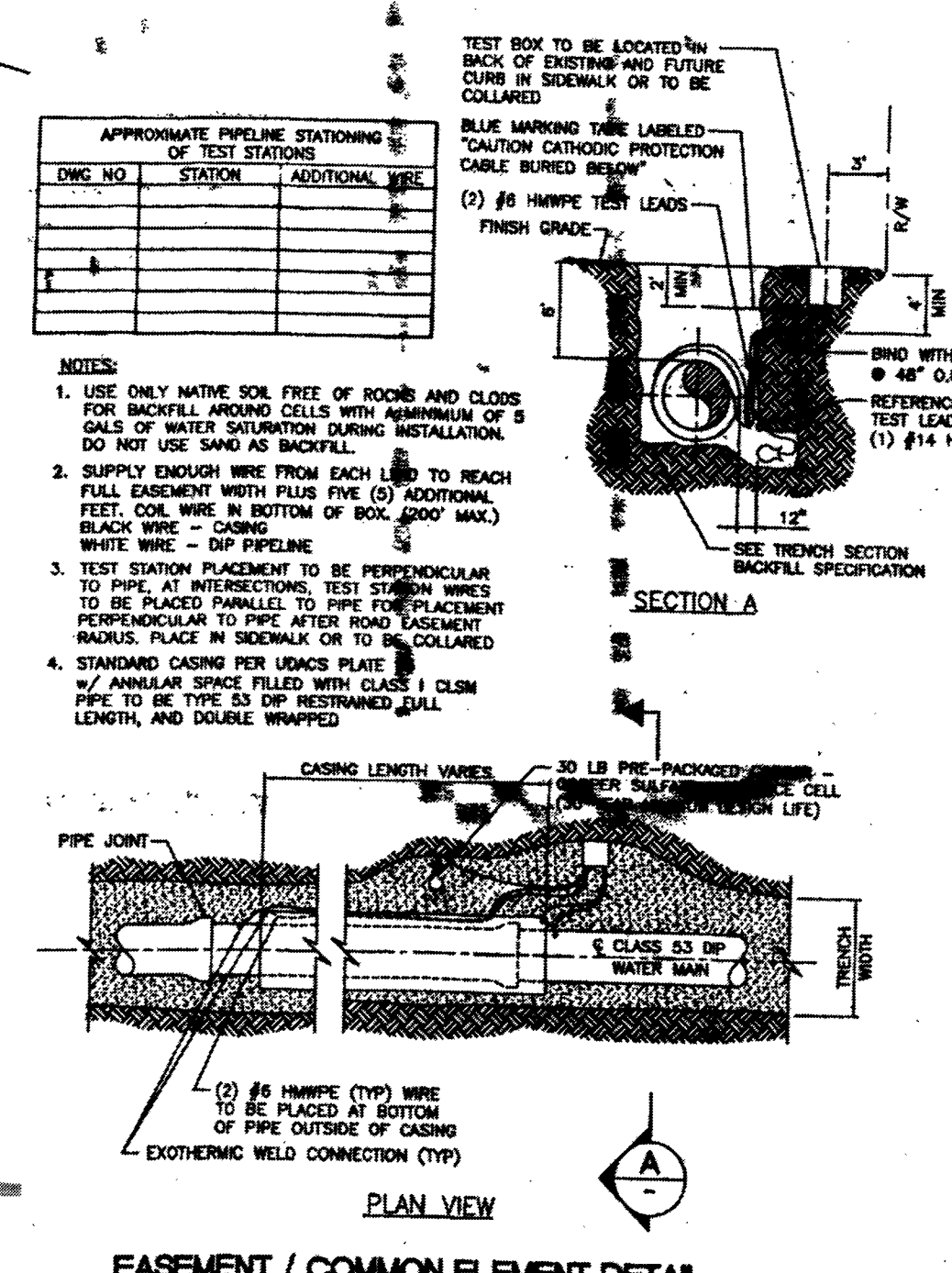
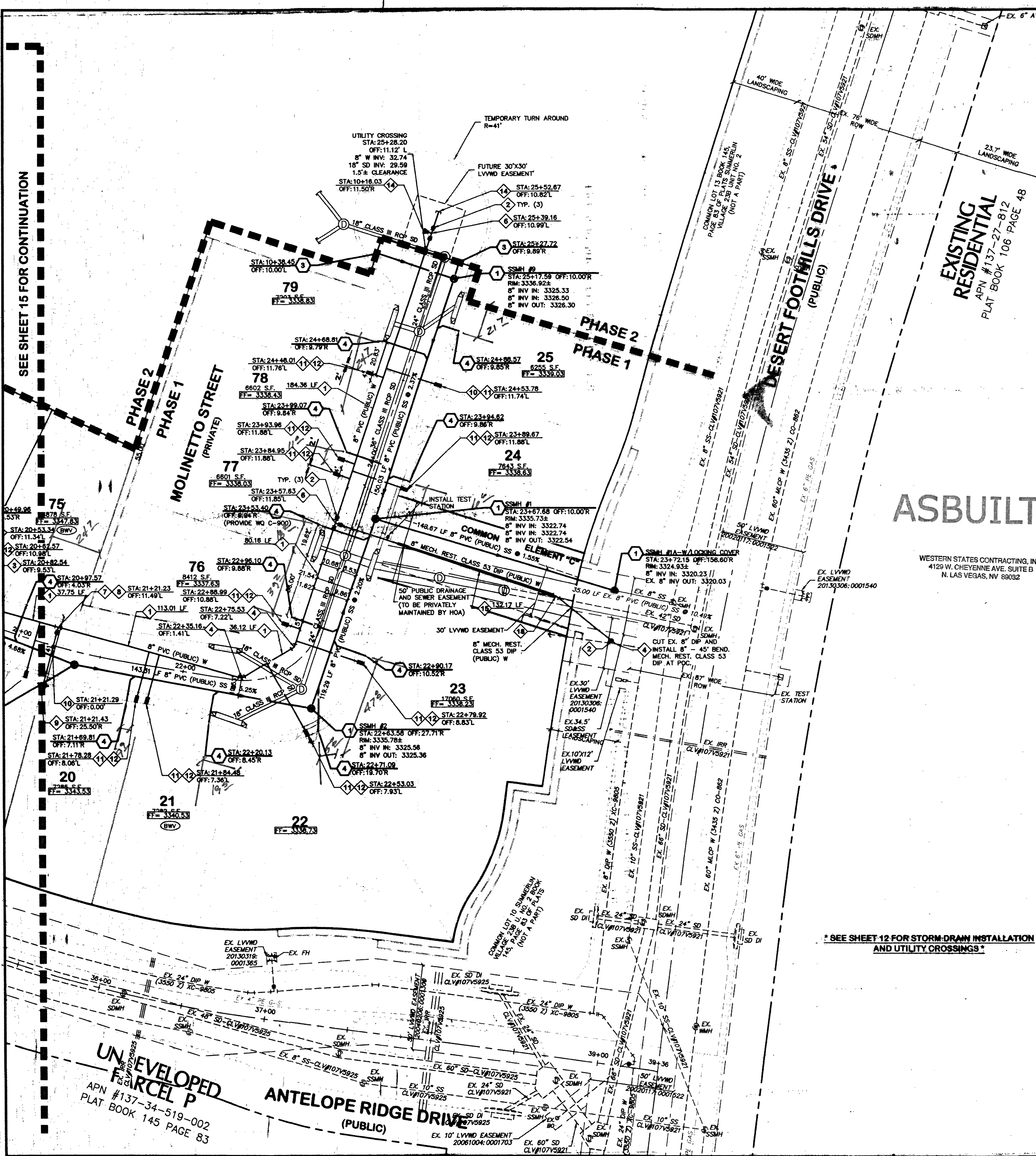
DESIGNED BY: MGB
DRAWN BY: MGB
CHECKED BY: VRH
DATE: March 2015
JOB NUMBER: 220-016-141
REVISION
NO. 1
DATE: 3/14/15
BY: MGB

L. R. NELSON CONSULTING ENGINEERS, INC.
STRUCTURAL
CIVIL
PLANNING
SURVEY
6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
(702) 451-2286 FAX

Woodside Homes
BETTER BY DESIGN

PHASE 1 - SAVONA AT SUMMERLIN IMPROVEMENT PLANS
CITY OF LAS VEGAS

SHEET NUMBER
15
OF 30 SHEETS
CLV# 10715023-1



EASEMENT / COMMON ELEMENT DETAIL
TYPE 'T' TEST STATION WITHOUT ANODES
NOT TO SCALE

COMMON ELEMENT / EASEMENT REQUIREMENTS

1. ISOLATION VALVES ARE REQUIRED AT THE POINT OF CONNECTION (EXTERIOR) AND WITHIN 10 FEET OF THE BACK OF CURB (INTERIOR), WITH NO SERVICE CONNECTIONS BETWEEN THE VALVES.
2. THE PIPE MATERIAL BETWEEN THE VALVES MUST BE CLASS 53 DIP, DOUBLE WRAPPED, WITH RESTRAINED JOINTS.
3. THE PIPELINE MUST BE PLACED AT A MINIMUM OF 6 FOOT DEPTH COVER.
4. THE PIPELINE MUST BE PLACED IN A STEEL CASING FOR THE ENTIRE LENGTH OF THE EASEMENT / COMMON ELEMENT PER UDACS #23.
5. AT A MINIMUM, THE EASEMENT MUST BE BONDED AND A TEST STATION INSTALLED AT ONE END OF THE EASEMENT.
6. FOR ALL PIPELINES 16-INCH AND GREATER, A TEST PORT WILL BE REQUIRED TO FACILITATE PIPE CONDITION ASSESSMENT.
7. THE ENTIRE TRENCH BACKFILL MUST BE CLASS 1 CLSM.
8. THE EASEMENT MUST BE A MINIMUM OF 30 FEET WIDE.
9. THE PIPELINE MUST BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF EASEMENT.
10. A CROSS SECTION OF THE EASEMENT MUST BE SHOWN ON THE PLANS WITH CURB / GUTTER OR BLOCK WALL USED TO DELINEATE THE BOUNDARY OF THE EASEMENT.
11. THE PIPELINE MUST BE SHOWN IN A PROFILE VIEW THE ENTIRE LENGTH OF THE COMMON ELEMENT / EASEMENT.
12. NO BUILDINGS, STRUCTURES, WALLS, FENCES OR TREES SHALL BE PLACED UPON, OVER OR UNDER SAID EASEMENT FOR THE DURATION OF THIS EASEMENT EXCEPT THAT SAID EASEMENT MAY BE IMPROVED AND USED FOR STREET, ROAD OR DRIVEWAY PURPOSES, TRAIL, PATH, PARKING LOT, PLAYGROUND, NON-VEHICULAR PUBLIC ACCESS OR SHALLOW ROOT, LANDSCAPING PURPOSES AND FOR OTHER UTILITIES, INsofar AS SUCH USE DOES NOT INTERFERE WITH ITS USE BY THE DISTRICT FOR THE PURPOSES FOR WHICH IT IS GRANTED.
13. CARBONITE OR BRASS MARKERS MUST BE USED TO DELINEATE THE LOCATION/ALIGNMENT OF THE PIPELINE WITHIN THE EASEMENT.
14. THE FINAL MAP MUST DEDICATE THE SUBJECT EASEMENT AREA AS A COMMON ELEMENT AND A SEPARATE EASEMENT DOCUMENT IS REQUIRED.
15. A SURFACE MAINTENANCE/REPAIR AGREEMENT WILL BE REQUIRED STATING DEVELOPER AGREES TO SURFACE RESTORATION/REPAIR AT SOLE COST, IN PERPETUITY.

THIS PROJECT PLAN APPROVAL CONTINGENT ON:
SAVONA ENTRANCE (LVVMD PROJECT #123251)
PLAN APPROVAL

SEWER CONTRIBUTIONS

AVERAGE FLOW	0.0115 MGD
PEAK FLOW	0.0503 MGD

BASIS OF BEARINGS

NORTH 13°20'07" EAST, BEING THE BEARING OF THE CENTERLINE OF DESERT FOOTFALLS DRIVE AS SHOWN ON THE PLAT OF SUMMERLIN VILLAGE 238 UNIT NO. 2, ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS BOOK 145, PAGE 83 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV08 275E6

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ELEVATION = 1013.556 METERS (3325.31 FEET) NAVD 1988.

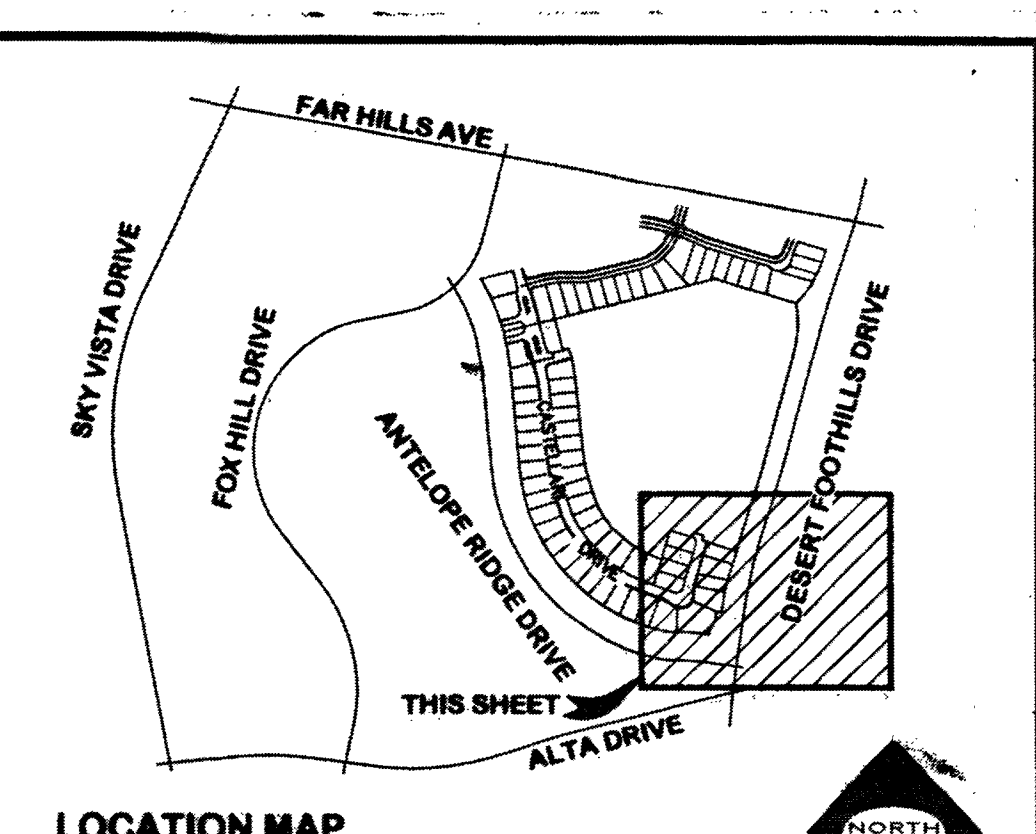
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PARCEL CC AS SHOWN ON THE FINAL MAP OF SUMMERLIN VILLAGE 238 UNIT NO. 2, A COMMON INTEREST COMMUNITY, ON FILE IN BOOK 145 OF PLATS, PAGE 83 LYING WITHIN SECTION 27, TOWNSHIP 20 SOUTH, RANGE 50 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVMD

CITY FIRE DEPARTMENT DATE 3/6/15



SANITARY SEWER CONSTRUCTION NOTES

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- 8. MAINTAIN 5' OF PARALLEL SEPARATION BETWEEN POWER POLES AND WATER METERS.

APPROVED FOR CONSTRUCTION

1. D. SHAR, FRIDAY
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE MANAGER
DATE 3/11/15 PROJECT NO. 123250
LVVMD APPROVED FIRE FLOW 1,750 GPM AT 20 P.S.I. RESIDUAL
DISCLAIMER NOTE
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Call before you Dig
811
1-800-227-2600

Call before you Dig
702-227-2828

Call before you Dig
1-702-452-5300
H# 56545

DESIGNED BY: MGB
DRAWN BY: MGB
DATE: March 2015
JOB NUMBER: 220-018-141
REVISION
NO.

PROFESSIONAL ENGINEER
STATE OF NEVADA
No. 12504
CIVIL

ASBUILT

L. R. NELSON CONSULTING ENGINEERS, INC.
STRUCTURAL
CIVIL
PLANNING
SURVEY
6785 West Russell Road, Suite 200
Las Vegas, Nevada
(702) 798-7978
(702) 451-2296 FAX

Woodside Homes
BETTER BY DESIGN

UTILITY PLAN 3

PHASE 1 - SAVONA AT SUMMERLIN
IMPROVEMENT PLANS
CITY OF LAS VEGAS

SHEET NUMBER
16
OF 30 SHEETS
CLV# 1075023-1